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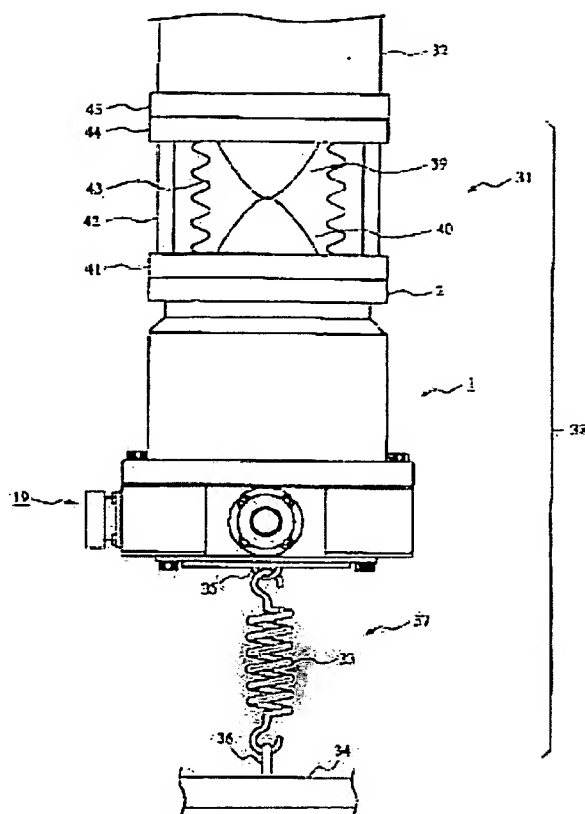
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TITLE : VACUUM PUMP



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide a vacuum pump capable realizing favorable vibration damping ability even when there is a pressure difference inside and outside a damper.

SOLUTION: A damper is formed in an inlet of the vacuum pump. The damper is connected to an outlet provided in a lower part of a vacuum device, and the vacuum pump is suspended from the vacuum device. One end of a coil spring is attached to a bottom of the vacuum pump, and another end of the coil spring is attached to a fixing object below the vacuum pump. In the coil spring, restoring force acts in the direction extending the damper. Since vacuum is formed in an interior of a damper part when the vacuum pump is operated, the damper part is compressed by atmospheric pressure and it tries to contract, but the damper is extended by the restoring force of the coil spring. By this, reduction of an elastic modulus following contraction of the damper can be reduced, and consequently, vibration absorbing ability of the damper can be maintained.

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